

Optimizing Workload Management in Phase-I Oncology Clinical Research through Novel Oncology - Phase-I Acuity Scoring System (O-PASS)

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Background

- The **Ontario Protocol Assessment Level (OPAL)** is widely used to **assess trial acuity** but assigns a uniform score of eight (OPAL = 8) to all Phase-1 trials. This generalization, even after adding “optional elements” score modifiers, **fails to account for workload variability** within **Phase-1 programs**, creating **unmet need** for clinical research teams.
- High workloads contribute to burnout among clinical research professionals, highlighting **need for workload management tools** tailored to complexities of **Phase-I oncology trials**.
- Optimizing workload management through a dedicated **Oncology – Phase-I Acuity Scoring System (O-PASS)** can help mitigate these concerns and develop a more effective Phase-I program.

Goals

- O-PASS** was **designed** to more **accurately estimate workload** of Phase-I oncology clinical research coordinators (CRCs) and clinical research nurses (CRNs).
- By improving workload distribution, **O-PASS aims to reduce burnout and turnover**, ultimately stabilizing staffing and strengthening the Phase-I program to expand patient access to clinical trials.

Solutions & Methods

Step 1: Standard Acuity Scoresheet			
Assess each study within the portfolio and pass through the following criteria totaling each item to a final raw acuity score per study. The raw acuity score will have a maximum of 100.			
Examples of Standard Acuity Scoresheet Metrics			
Estimated Total Enrollment Per Year		Outpatient Clinic Observation Period Lengths and In-Patient Admission Observations	
Number of Visits During Dose Limiting Toxicity Period		Number of Investigational Products	
Number of Visits Post Dose Limiting Toxicity Period		Treatment Schedule	
Requires Coordination with Outside Departments (i.e.. Interventional Radiology/Radiation Therapy/Surgery)		CRS/ IRR/ SAE Risk Assessment	
Central Lab Collection Time-Points		Number of Unique Cohorts	
Standard Scoring Levels: 0 = N/A			

Outcomes

- 67% of CRC/CRNs** reported **improved work-life balance** and **reduced burnout**.
- 100% believed** O-PASS could **help reduce staff turnover**

Lessons Learned and Future Considerations

- Preliminary data suggests **O-PASS enhanced the FCCC Phase-I clinical research program** at FCCC.
- Limitations of study include:**
 - Small cohort size
 - Single institution setting
 - Concurrent staffing changes may have influenced results.
- Ongoing **follow-up questionnaires** will further assess **long-term effects**; management will **analyze retention data to evaluate its impact on turnover**.
- Further **refinement of tool** will **increase effectiveness**. In the future, O-PASS will serve as **model for workload assessment tools for data specialists and regulatory coordinators**.

